

Title (en)  
OXIDE SUPERCONDUCTOR WIRE AND METHOD OF MANUFACTURING OXIDE SUPERCONDUCTOR WIRE

Title (de)  
OXIDSUPRALEITENDER DRAHT UND VERFAHREN ZUR HERSTELLUNG DES OXIDSUPRALEITENDEN DRAHTS

Title (fr)  
FIL SUPRACONDUCTEUR D'OXYDE ET PROCÉDÉ DE FABRICATION D'UN FIL SUPRACONDUCTEUR D'OXYDE

Publication  
**EP 2770513 B1 20160302 (EN)**

Application  
**EP 12850982 A 20121121**

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• JP 2012080246 W 20121121

Abstract (en)  
[origin: EP2770513A1] An oxide superconductor wire includes: a tape-shaped oxide superconductor laminate that is formed by providing an intermediate layer on a front surface side of a metal tape-shaped substrate, providing an oxide superconductor layer on the intermediate layer, and providing a protective layer on the oxide superconductor layer; and a coating member that includes a metal tape and a low melting point metal layer, in which the metal tape has a wider width than that of the oxide superconductor laminate and covers the protective layer surface of the oxide superconductor laminate, both side surfaces of the oxide superconductor laminate, and both end portions of a substrate back surface side in a width direction thereof, both end portions of the metal tape in a width direction thereof are provided to cover both the end portions of the substrate back surface, the low melting point metal layer fills gaps between the oxide superconductor laminate and the metal tape that is provided near the oxide superconductor laminate to join the metal tape and the oxide superconductor laminate to each other, and a part of the filled low melting point metal layer is formed between both the end portions of the metal tape in the width direction.

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